No.1, 2nd Floor, P. Veerappa Arcade, Ittamadu Main Road, Arehalli, Subramanyapura Post, Bengaluru - 560061
Phone No : + 91 80 26731005, 43008989 e-mail : nezsvv@gmail.com nezsvv@yahoo.co.in
CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Bituminous concrete Grade 2
Technical References	As per Table 500-17

BITUMEN EXTRACTION
(As per Table 500-17)

Section/ Location of Lab	:	NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061
Description	:	Bituminous concrete
Date of Testing	:	29/07/2022

Description	Trail 1	Trail 2
Weight of Mixture before Test, g	500	500
Weight of Mixture after Test, g	472.9	472.8
Weight of Bitumen Extracted, g. (corrected)	27.1	27.2
Bitumen content in %	5.42	5.44
Average %	**5.43**	

No.1, 2nd Floor, P. Veerappa Arcade, Ittamadu Main Road, Arehalli, Subramanyapura Post, Bengaluru - 560061
Phone No : + 91 80 26731005, 43008989 e-mail : nezsvy@gmail.com nezsvy@yahoo.co.in
CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

IS Sieve Size inmm	Weight Retained(g)	Cumulative Weight Retained(g)	Cumulative % of Retained	Cumulative % of Passing	Job mix gradation
19	0	0	0	100	100
13.2	29.42	29.42	6.22	93.78	90-100
9.5	68.5	97.92	20.7	79.3	70-88
4.75	108.1	203	42.88	57.12	53-71
2.36	60.7	263.7	55.75	44.25	42-58
1.18	27.7	291.4	61.6	38.4	34-48
0.6	50.9	342.3	72.36	27.64	26-38
0.3	33.7	376	79.5	20.5	18-28
0.15	27.5	403.5	85.3	14.7	12-20
0.075	44	447.5	94.6	5.4	4-10

IS Sieve Size inmm	Weight Retained(g)	Cumulative Weight Retained(g)	Cumulative % of Retained	Cumulative % of Passing	Job mix gradation
19	0	0	0	100	100
13.2	31.93	31.93	6.75	93.25	90-100
9.5	71.18	103.11	21.8	78.2	70-88
4.75	102.7	205.8	43.5	56.5	53-71
2.36	57.9	263.7	55.75	44.25	42-58
1.18	31.5	295.2	62.4	37.6	34-48
0.6	47.25	342.45	72.4	27.6	26-38
0.3	34.53	376.98	79.7	20.3	18-28
0.15	30.27	407.25	86.1	13.9	12-20
0.075	41.65	448.9	94.9	5.1	4-10

Remarks: The obtained and bitumen content and job mix gradation is as per Table 500-17 of MORT&H and the extracted bitumen content is 5.43% which is as per MORT&H Table 500-17.

Prepared by Checked by Approved by

Nez Infratech Pvt. Ltd.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳು, (ಮಾದರಹಳ್ಳಿ ವಿಭಾಗ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು - 02

NEZ Infratech Private Limited
Civil Engineering Consultants
CIDC Regd No 220929
CIDC
No.1, 2nd Floor, P. Veerappa Arcade, Ittamadu Main Road, Arehalli, Subramanyapura Post, Bengaluru - 560061
Phone No : + 91 80 26731005, 43008989 e-mail : nezsvy@gmail.com nezsvy@yahoo.co.in
CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Bituminous concrete Grade 2
Technical References	As per Table 500-19

MARSHAL STABILITY TEST
(As per MORT&H Table 500-19)

Section/ Location of Lab	:	NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061
Description	:	Bituminous concrete grade 2
Date of Testing	:	8/07/2022

Sl No.	Description	Test Results 1	Tests Results 2	Requirements as per MORT&H table 500-19
1	Marshal Stability Kn	9.75	10.6	Min. 9 Kn
2	Marshal flow mm	2.6	3.3	2-4
3	Percentage air voids in Mineral aggregates	13.4	14.4	13-15
4	Voids in compacted mix	3.7	4.4	3-6
5	Percentage voids filled with bitumen	66.1	66.5	65-75
6	Density g/cc	2.22	2.21	-

Remarks: The obtained Marshal Stability tests results are within permissible values as per Table 500-19 MORT&H.

Prepared by

Checked by

Approved by

NEZ Infratech PVT. LTD.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳು, (ದಾಸರಹಳ್ಳಿ ವಿಭಾ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ